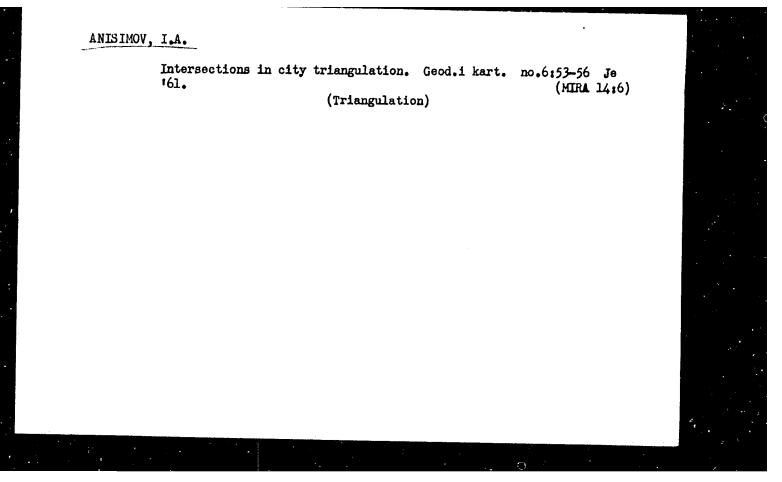


AROMOVICH, V.V. (Moskva); ANISIMOV, I.A. (Moskva); LYUDMIRSKIY, M.I.

(Moskva); PATUSHINSKAYA, R.S. (Moskva)

Quality control of some processes in the chemical industries.
Avtom.i telem. 21 no.6:821-832 Je '60. (MIRA 13:7)

(Automatic control) (Chemical engineering)



ANISIMOV, I.A.; PINYAGIN, N.B.; RYKOVA, S.S.

Role played by the petroleum refining industry in the creation of major industrial chemical complexes. Khim.i tekh.topl.i masel 8 no.8:30-31 Ag '63. (MIRA 16:9) (Petroleum—Refining) (Chemical industries)

ANISIMOV, I.I.; SHENYANSKIY, K.A.; RUDIX, G.T.

Specific prophylaxis of brucellesis in cattle on collective and state farms in Staline Province. Veterinariia 32 ne.5:
25-29 My 155. (MLRA 8:7)

1. Nachal'nik vetetdela Stalinskey oblasti (for Anisimev).
2. Direkter mezhasvkheznay laberaterii (for Shonyanskiy).
3. Starshiy vetvrsch sevkheza imeni Oktyabr'skey revelyntsii (for Rudik).
(STALINO PROVINCE—BRUCELLOSIS IN CATTLE—PREVENTIVE INOCULATION)

ARZUMANYAN, A.A., akademik; BERG, A.I., akademik; ZHUKOV, Ye.M., akademik; SEMENOV, N.N., akademik; VINOGRADOV, V.V., akademik; FRANTSEV, Yu.P.; SHCHERBAKOV, D.I., akademik; ANISIMOV, I.I.; GATOVSKIY, L.M.; IOVCHUK, M.T.; FEDOSEYEV, P.N., akademik; ROMASHKIN, P.S.; KONSTANTINOV, F.V.; MITIN, M.B., akademik; YELYUTIN, V.P.; PLOTNIKOV, K.N.; PRUDENSKIY, G.A.; YUDIN, P.F., akademik; RYBAKOV, B.A., akademik; KONSTANTINOV, B.P., akademik; KHVOSTOV, V.M.; KEDROV, B.M.; MARKOV, A.A.; BAISHEV, S.B., akademik; ALEKSEYEV, M.N., prof.; SKAZKIN, S.D., akademik; ALEKSANDROV, A.D.; POSPELOV, P.N., akademik

Discussion of L.F. Il'ichev's rreport. Vest. AN SSSR 32 mo.12:19-50 (MIRA 15:12)

1. Chleny-korrespondenty AN SSSR (for Aleksandrov, Frantsev, Anisimov, Gatovskiy, Iovchuk, Romashkin, Konstantinov, Yelyutin, Plotnikov, Prudenskiy, Khvostov, Kedrov, Markov). 2. AN Kazakhskov SSR (for Baishev).

(Research)

AMISEIC", J. E.

Prozdov, A. D. and Anisirov, J. N. Walculations of excitation of synchronous compensators with electronic voltage regulators, Windianal Section and Section a

ANISIMOV, I., zasluzhennyy vetvrach USSR.

Use of antibiotics in poultry farming. Ptitsevodstvo 8 no.6:33-35 Je '58. (MIRA 11:6)

1. Nachal'nik veterinarnogo otdela Stalinskogo oblsel'khozupravleniya. (Stalino Province-- Poultry) (Antibiotics)

Results of warble fly control in Stalino Province. Veterinariia
35 no.3:67-69 Mr 158. (MIRA 11:3)

1. Nachal'nik vetotdela oblsel'khozupravleniya Stalinskoy oblasti, USSR.

(Stalino Province--Warble flies)

ANISIMOV, I.N.

Diseases of the respiratory organs in young poultry.

Veterinarila 36 no.10:23-25 0 '59. (MIRA 13:1)

1. Nachal'nik veterinarnogo otdela Stalinskogo oblsel'khozupravleniya.

(Poultry-Diseases and pests)

ANTSIMOV, I. N. Head of the Veterinary Department of the Stalinsk Oblast' Agricultural Administration, Honored Veterinary Surgeon of the Ukrainian SSR.

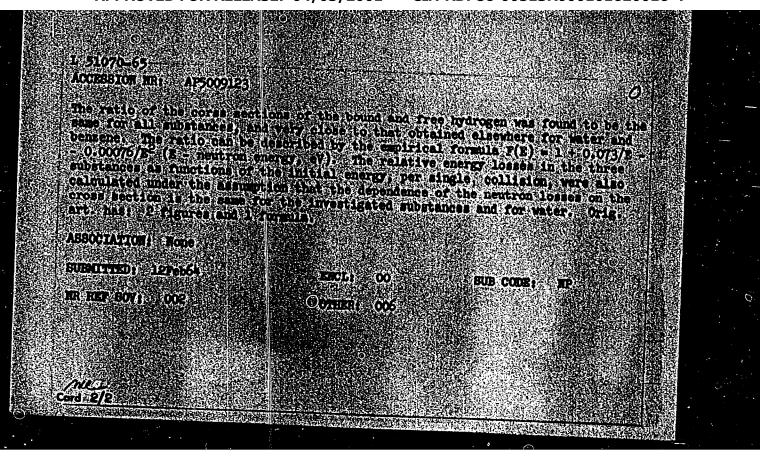
Effective means (sources) for the rise of the productiveness in animal husbandry /use of feed antibiotics/, Veterinariya, Vol. 37, No. 11, p. 27, 1960.

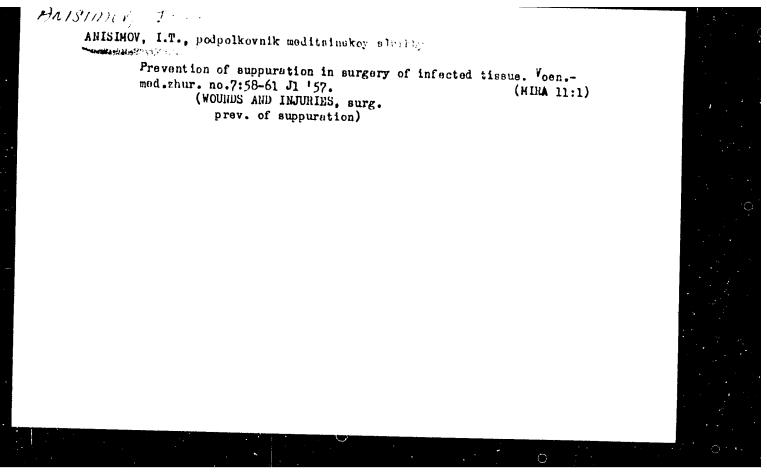
ANISIMOV, I.N., zasluzhemnyy veterinarnyy vrach UkrSSR

Possibilities for the increase of productivity in animal husbandry. Veterinaria 37 no.11:27-30 N '60. (MIRA 16:2)

1. Nachal'nik veterinarnogo otdela Stalinskogo oblastnogo sel'skokhozyaystvennogo upravleniya. (Donetsk Province—Stock and stockbreeding)

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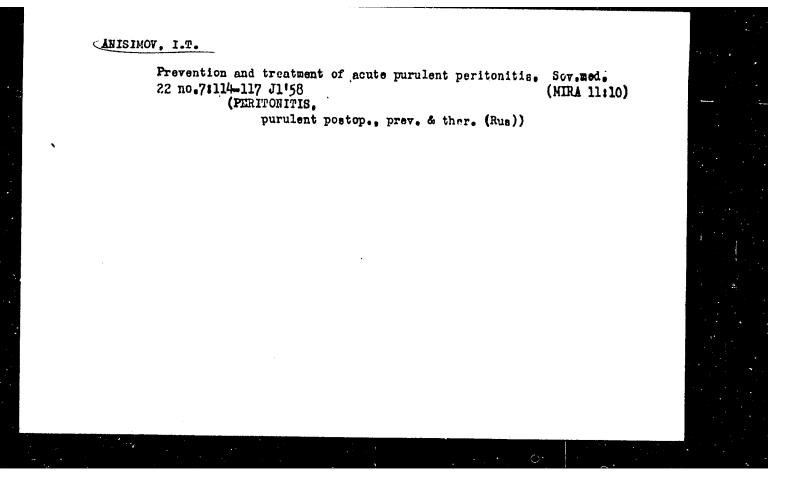




ANISTMU, 1.7.

ANISTMU, 1.7.

Parforating gastric ulcer complicated by a biliary fistula which was closed with a paraffin seal, Sov.med. 21 Supplement:21 '57', (PEPTIC ULCER) (FISTULA) (HIRA 11:2) (GALL BIADDER--DISEASES)



ANISIMOV, I. V.

ANISIMOV, I. V.: "Material on the morehological investigation of peripheral blood bone-marrow functate of cattle under normal and anemic conditions". Troitsk, 1955. Min Higher Education USSR. Kazan' State Veterinary Instriment N. E. Bauman. (Dissertations for the degree of Candidate of Veterinary Science.)

SO: Knizhnava Letopis' No. 50 10 December 1955. Moscou.

Characteristics of the transient conditions of piete towers.

Khim. i tekh. topl. i masel 10 no.3:45-50 Mr '65.

(MIRA 18:11)

1. Moskovskiy institut khimicheskogo nashinostroven yn i

Severodonetskiy filial Onytno-kenstruktorskogo byure svtonatiki.

AMISTICU, I. V., Engr.

"Antomatizati n of the freduction of Inscatrial Synthetic Acctic acid From Accticities." Cami Tech Sci, Mosecw Inst of Chemical Machine Emilsing, 16 Sep 54. (VM, 6 Sep 54)

CO: Sum 432, 27 Mar 55

HNISIMOV, I.V. USSR/Chemistry - Acetic acid production

FD-2640

Card 1/1

Pub. 50-5/18

Author

: Anisimov, I. V.

Title

: Automatization of the production of acetic acid from acetaldehyde

Periodical

: Khim. prom. No 3, 145-150, Apr-May 1955

Abstract

: Outlines automatic control procedures used in the production of acetic acid by the liquid phase oxidation of acetaldehyde in the presence of manganese acetate. Five figures.

ANISIMOV, I.V.

USSR/Chemistry - Chemical engineering, Control instruments

FD-3363

Card 1/1

Pub. 50 - 7/20

Author

: Anisimov, I. V.

Title

: Determination of the dynamic characteristics of automatic control systems by means of industrial instruments and controllers

Periodical

: Khim. prom. No 7, 408-414, Oct-Nov 1955

Abstract

: Developed a method of determining the characteristics of automatic control systems applied in the chemical industry by using industrial recorders and controllers which record data on a magnified scale. Propose a method of introducing disturbances into the input in such a manner that the fluctuations of the parameter being regulated will not exceed the set limits. The calculation of the amplitude-phase characteristics according to "dispersal curves" [error curves] yielded values which agreed well with those calculated from frequency curves. Ten references, all USSR, all since 1940. Two figures, 6 graphs, 3 tables.

Institution

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Submitted

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ANISIMOV. I.V., kandidat tekhnicheskikh nauk.

Experimental determination of the dynamic characteristics of industrial pneumatic regulators. Zhim.prom.no.8:476-482 D '56. (HLRA 10:1)

(Thermostat) (Pneumatic control)

ANISIMOV, Igor' Vasil'yevich, kandidat tekhnicheskikh nauk; GORKOVA, A.A., inzhener, vedushchiy redaktor; KHLEBNIKOVA, L.A., tekhnicheskiy redaktor

[Antomatic control in rectification processes] Avtomaticheskoe regulirovanie protsessa rektifikatsii. Moskva, Gos.nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry, 1957. 102 p. (MIRA 10:7)
(Distillation) (Automatic control)

Considering the automatic regulation of oxidation towers as standard control type in chemistry industries. Priborostroenie no.9:4-8 S '57. (MIRA 10:10)

(Automatic control) (Oxidation)

28 (5)

AUTHOR: Anisimov, I. V.

S/064/59/000/07/019/035 B005/B123

TITLE:

Methods of Optimum Adjustment of Regulators Based on the Dynamic Characteristics of the System to Be Regulated as

Obtained by Experiments

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 7, pp 612 - 619 (USSR)

ABSTRACT:

In the paper by Ye. G. Dudnikov (Ref 1), a method is described for computing the adjustment of regulators from dynamic characteristics of the system that were obtained experimentally. In the present paper it is shown that this method can also be used for computing optimum adjustments of serially manufactured automatic regulators in the chemical industry. Besides, correction factors for the changes in working conditions of the system are given. Moreover, the author worked out a procedure by which the adjustment of the regulator can be selected according to the conditions of the changing load of the system. The author's calculations are given in the paper. Table 1 shows the values of two power exponents that were necessary for the calculation. As an example the com-

Card 1/3

Methods of Optimum Adjustment of Regulators Based on S/064/59/000/07/019/035 the Dynamic Characteristics of the System to Be Re- B005/B123 gulated as Obtained by Experiments

putation of the optimum adjustment for a manometric temperature regulator, type 04-TG-6102 is given, which is used in the oxidation column in the production of acetic acid. This regulation system is reproduced schematically and accurately described. Table 2 gives the data necessary for the computation obtained by experiment, tables 3 to 5 show intermediate results obtained in the course of calculations. A method was suggested by V. V. Solodovnikov (Refs 4, 5) for drawing a diagram of the anticipated transition process of regulation with an optimum adjustment of the regulator. In the present paper the following industrial standard measuring apparatus with pneumatic transmission of indications are recommended: Float-manometer (consumption-meter, level-meter, extensometer), type DPP-280, spiral spring-manometer, Type MGP-270, bellows-sealed vacuometer, type VSP-270 and a ring balance with universal pneumatic transmitter, type UPDKV RIn a special section of the paper the preparatory work for adjusting and determining the correction coefficients during the calculation of optimum adjustment is discussed in detail. There are 9 figures, 5 tables,

Card 2/3

Methods of Optimum Adjustment of Regulators Based on the Dynamic Characteristics of the System to Be Regulated as Obtained by Experiments

and 5 Soviet references.

ANISIMOV, Igor' Vasil'yevich; GOR'KOVA, A.A., ved. red.; POLOSINA, A.S., tekhn. red.

[Automatic control of rectification] Avtomaticheskoe regulirovanie protsessa rektifikatsii. 2. izd., dop. Moskva, Gos.nauchno-tekhn. izd-vo neft.i gorno-toplivnoi lit-ry, 1961. 179 p. (MIRA 14:12) (Distillation, Fractional) (Automatic control)

ANISIMOV, I.V.; KRIVSUMOV, V.K.

Mathematical description of the static characteristics of
a tray rectification column. Khim.prom. no.9:572-575 Ag '62.

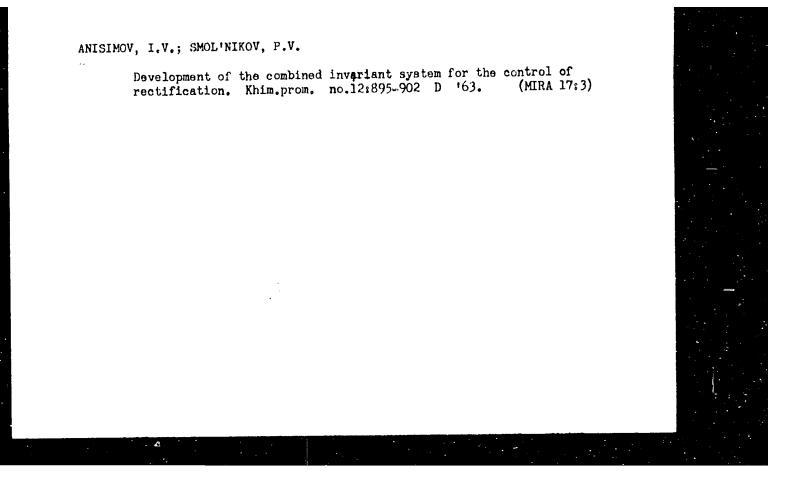
(MIRA 15:9)

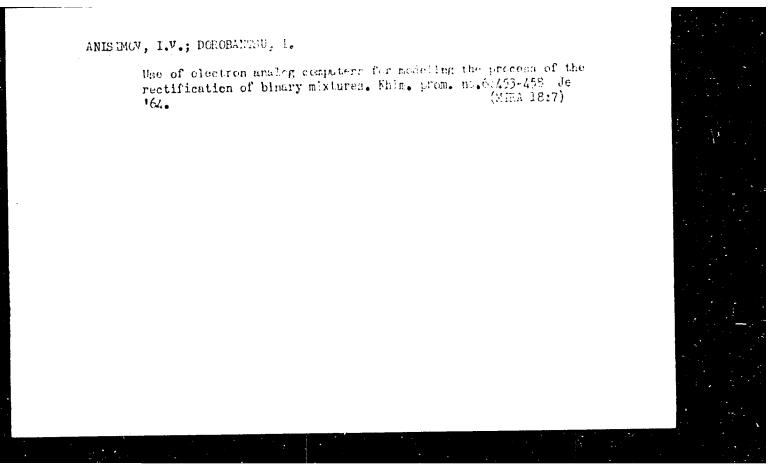
(Plate towers)

KRIVSUNOV, V. N.; AMISIMOV, I. V.

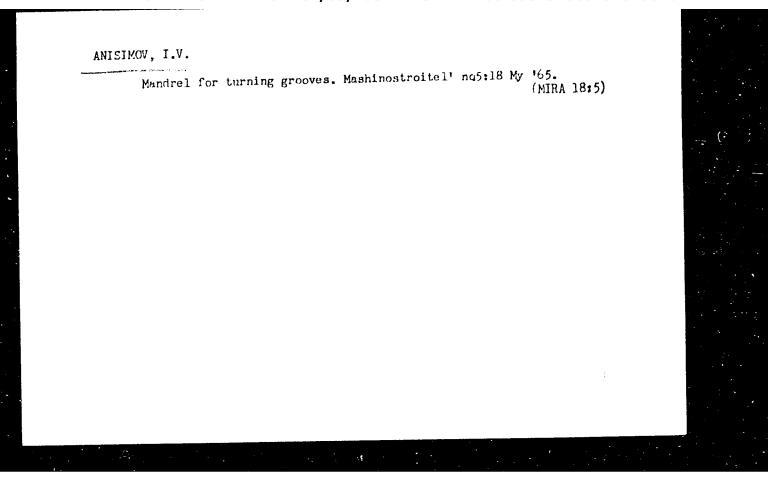
Static characteristics of plate rectification columns. Khim. prom. no.3:219-227 Mr '63. (MIRA 16:4)

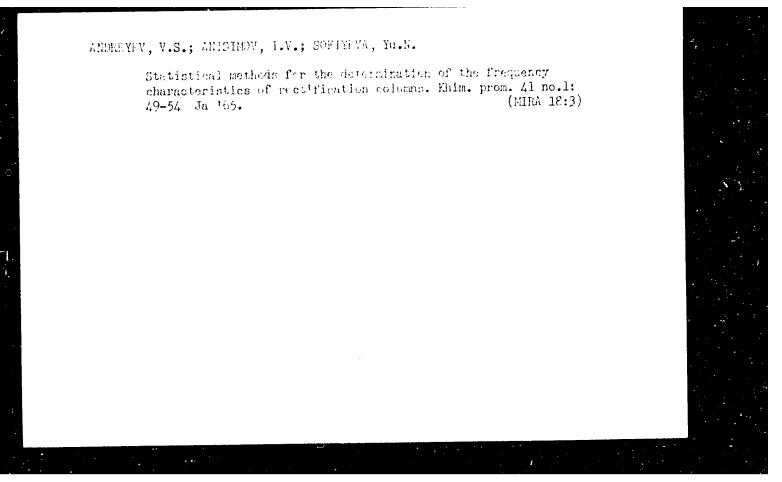
(Plate towers)

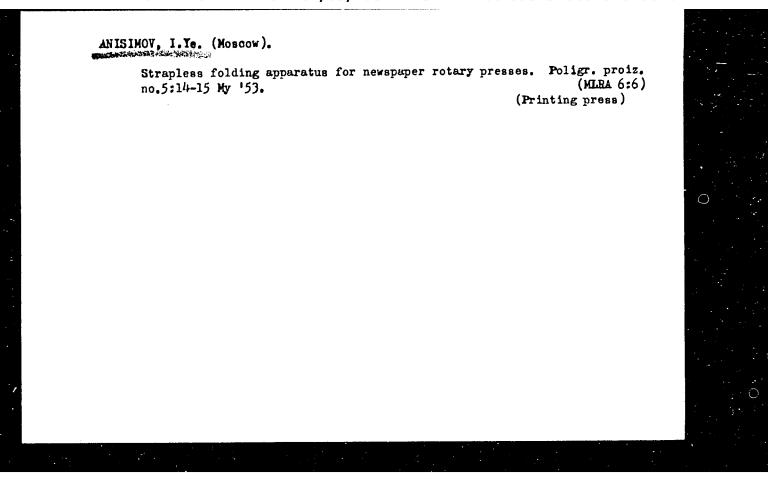




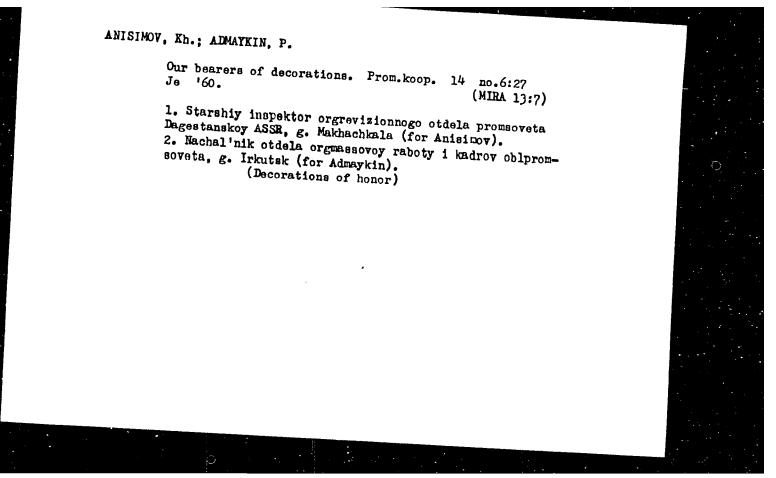
Electronic diminal computer calculation of the optimum construction parameters of the plate rectification columns for the separation of binary mixtures. Shim. prom. 40 no.10:776-782 (164. (MRA 9.3)







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	1. Predmedatel' pravleniya arteli invalidov "Kartonazn," Leningrad.	
	(LeningradPhysically handicappedRehabilitation)	

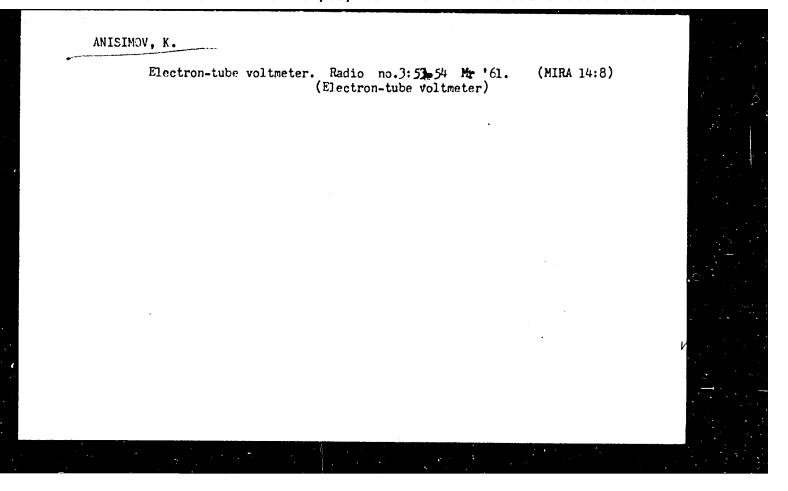


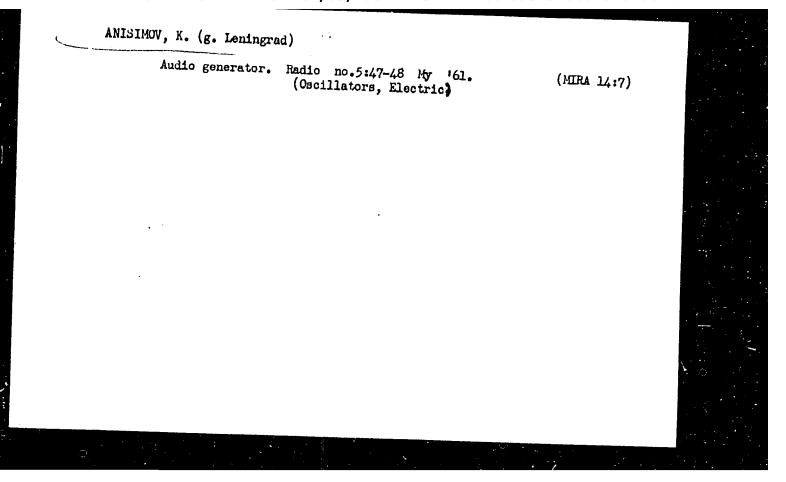
This is what conveyers contribute. Prom.koop. 14
no.7:6-7 J1 '60. (MIRA 13:8)

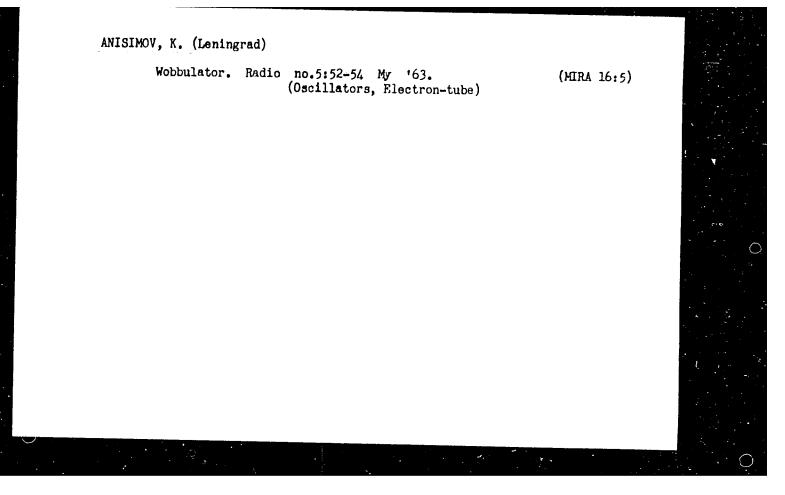
1. Tekhnoruk arteli "Kul'tkhim," Kiyev(for Kottel').
2. Tekhnoruk arteli invalidov "Kollektivnyy trud," g.Kimry,
Kalininskoy oblasti (for Metkin). 3. Predsedateli pravleniya
arteli invalidov "Kartonazh," Leningrad (for Anisimov).

(Kiev--Pigments) (Kimry--Shoe industry)

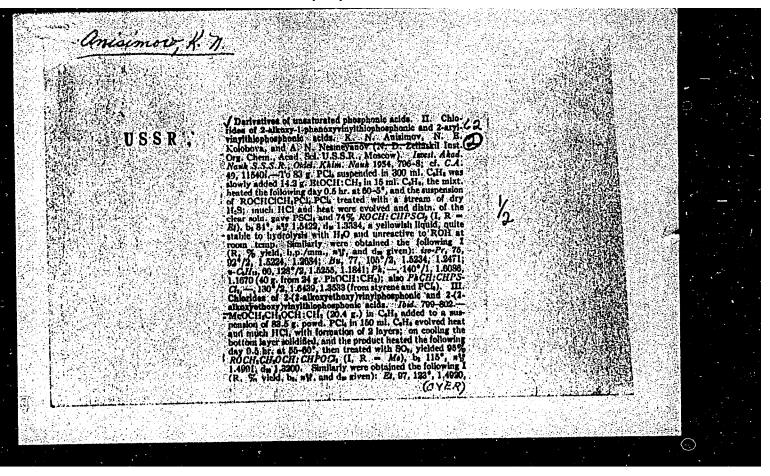
(Leningrad--Paper box industry)

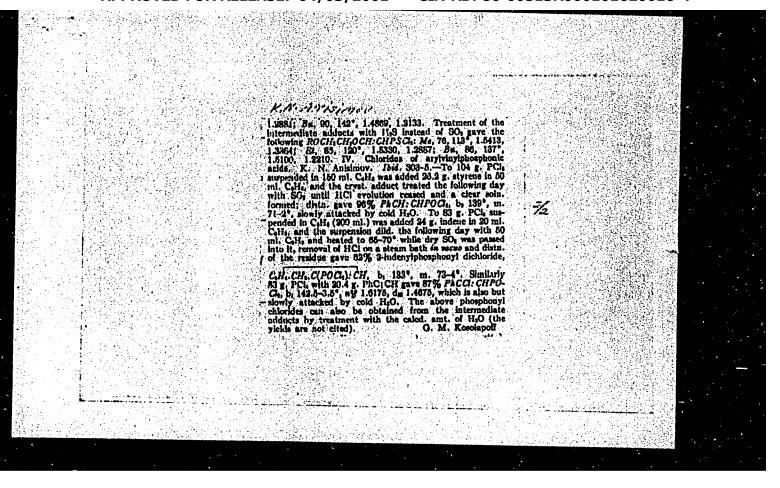






ANISINOV, K. N. USSR/Chemistry Synthesis Card : 1/1 Pub. 10 - 5/27 Authors : Anisimov, K. N., and Nesmeyanov, A. N. : Investigation of phosphinic acid derivatives. Part 1.- Synthesis of Title beta-alkoxy (phenoxy)-phosphinic acid chlorides : Isv. AN SSSR. Otd. khim. nauk 4, 610 - 613, July - August 1954 Periodical Abstract : The addition of phosphorpentachloride to alkyl(aryl) vinyl ethers and the chemical properties of the addition products obtained, were investigated. A simple and convenient method for the synthesis of dichloroanhydrides of beta-alkoxy (phenoxy)-vinylphosphinic acids, is described. The effect of carboxylic acids and water on the yield of addition products, is explained. Mine references: 2 USSR; 4 USA and 3 German (1876 - 1948). Table. Institution : Acad, of Sc. USSR, Institute of Organic Chemistry Submitted : August 23, 1953



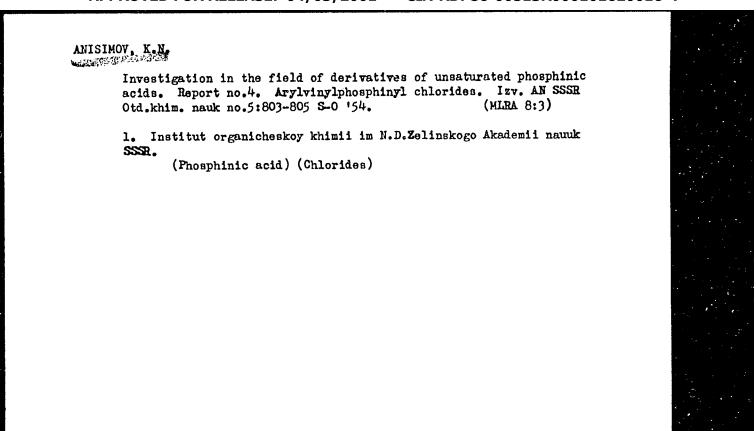


ANISIMOV, K.N.; KOLOBOVA, N.Ye.; NESMEYANOV, A.N.

Investigation in the field of derivatives of unsaturated phosphinic acids. Report no.3. β -alkoxyethoxyvinylphosphinyl and β -alkoxyethoxyvinylphosphinyl and β -alkoxyethoxyvinylthiophosphinyl chlorides. Izv.AN SSSR Otd.khim. nauk no.5:799-802 S-0 154. (MLRA 8:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo Akademii nauk SSSR.

(Phosphinic acid) (Chlorides)



ANISIMOV, K. N.

USSR/ Chemistry - Organic chemistry

Card 1/1

Pub. 40 - 7/26

Authors

Anisimov, K. N.; Kolobova, N. Ye.; and Nesmeyanov, A. N.

Title

Derivatives of unsaturated phosphinic acids. Part 5. Esters of bata-ethoxyvinylphosphinic, beta-n-propoxyvinylphosphinic, beta-n-butoxyvinylphosphinic and beta-n-hexyloxyvinylphosphinic acids.

Periodical : Izv. AN SSSR. Otd. khim. nauk 2, 240 - 248, Mar-Apr 1955

Abstract

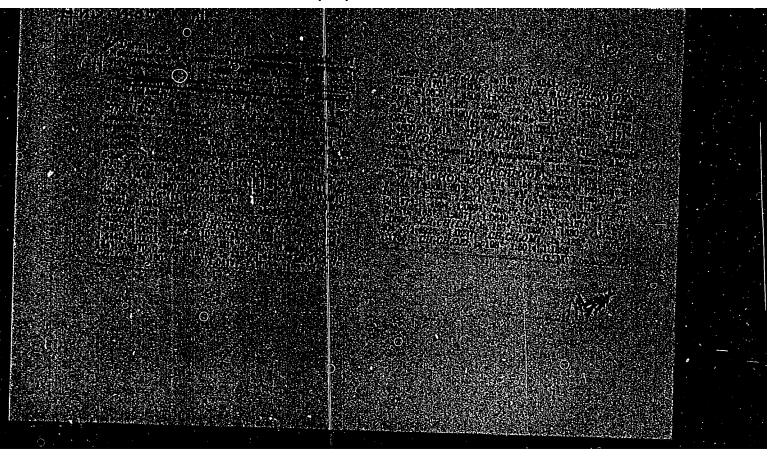
1 The characteristics of ethoxy, propoxy, butoxy and hexyloxy-vinylphosphinic acid esters obtained during the reaction of alcohols with the dichloro anhydrides of these acids in the presence of pyridine are described. Data are also presented on the synthesis of methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, allyl, n-hexyl, beta-methoxyethyl and beta-ethoxyethyl esters of the above mentioned acids. Thirteen references: 1 Polish and 12 USSR (1917-1954). Tables.

Institution : Acad. of Sc., USSR, Inst. of Organoelemental Compounds

Submitted

: June 11, 1954

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620016-4



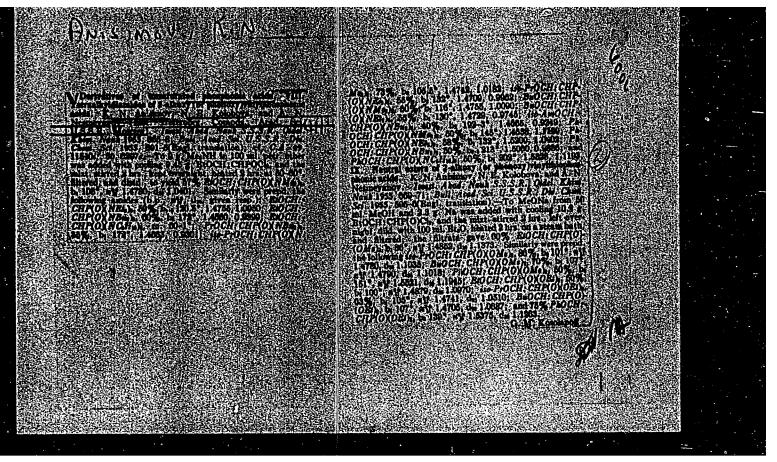
ANISIMOV, K.H.; KOLOBOVA, N.Ye.; NESMEYANOV, A.N.

Research in the field of unsaturated phosphinic acids. Report no.7. Esters of 3-phenoxyvinylphesphinic acid. Izv.AN SSSR. Otd.khim.nauk no.3:432-434 My-Je '55. (MIRA 8:9)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR.

(Phosphinic acid)

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620016-4



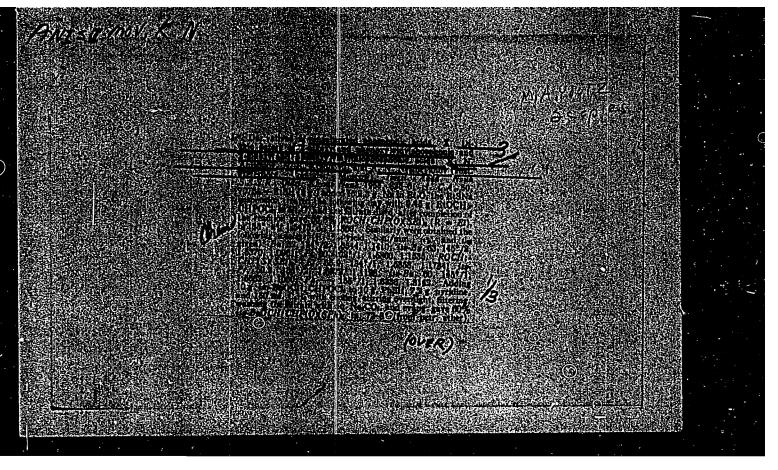
(MLRA 9:1)

AMISIMOV, K.N.; KOLOBOVA, N.Ye.; NESMEYANOV, A.N. Research in the field of unsaturated phosphinic acids. Report no.9. Complete esters of \$-alkexy(phenexy) vinylthic phosphinic acids.

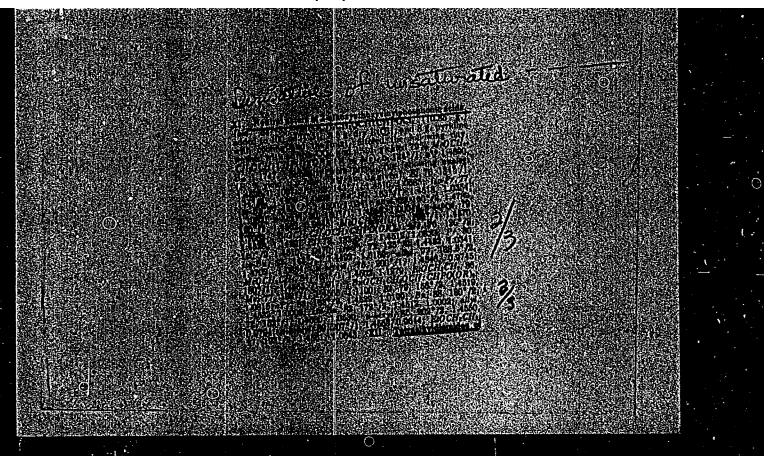
Izv. AN SSSR. Otd. khim. mauk no. 4:669-671 J1-Ag 155.

1. Institut elementeergamicheskikh seyedimeniy Akademii nauk SSSR. (Phesphinic acids)

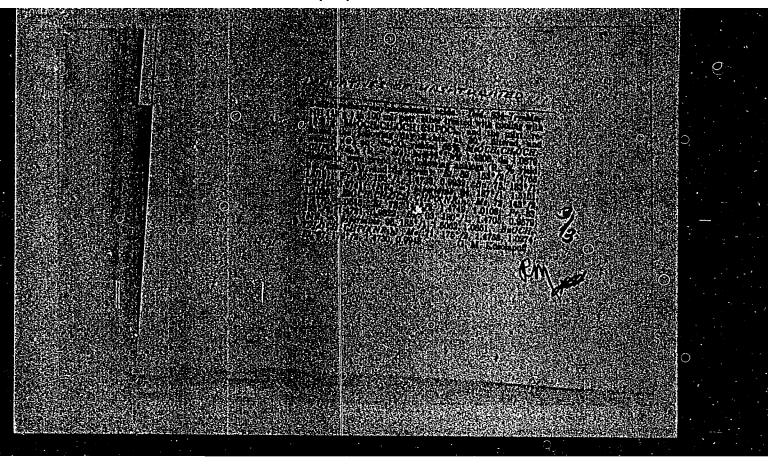
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ANISIMOV, K.W.; KOLOBOVA, W.Ye; NESHEYANOV, A.W.

Investigation into the unsaturated phosphinic acids. Part 11. The complete esters of p-alkoxyethoxyvinylphosphinic acids. Izv.AN SSSR.Otd.khim.nauk no.5:827-833 S-0 '55. (MLRA 9:1)

1.Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR. (Phosphinic acid)

ANISIMOV, K.N.; KOLOBOVA, N.Ye; NESMEYANOV, A.N.

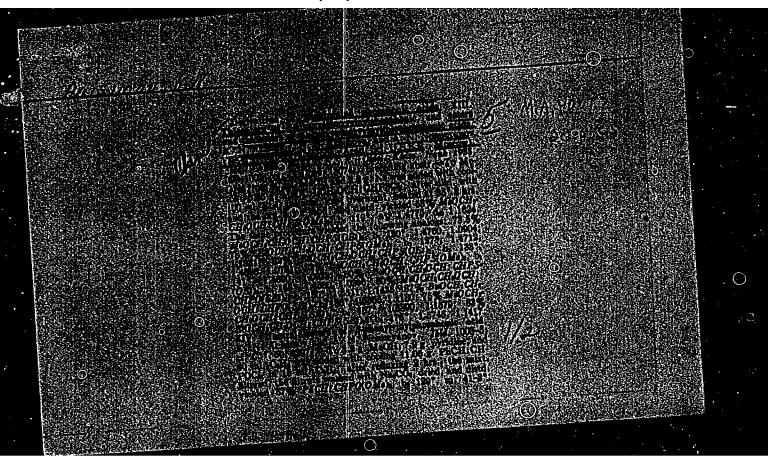
Investigation into the unsaturated phosphinic acids. Part 12.

The tetraalkyldianides of the β-alkoxyethexyvinylphosphinic

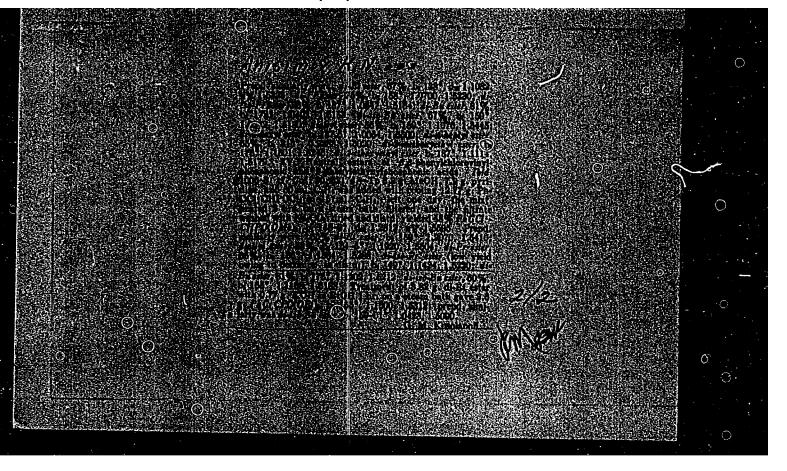
acids. Isv.AH SSSR.Otd.khim.nauk no.5:834-837 S-0 '55.
(MLRA 9:1)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk (Phosphinic acid) (Amides) SSSR.

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620016-4



"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620016-4



ANISIMOV, K.N.; NESMEYANOV, A.N.

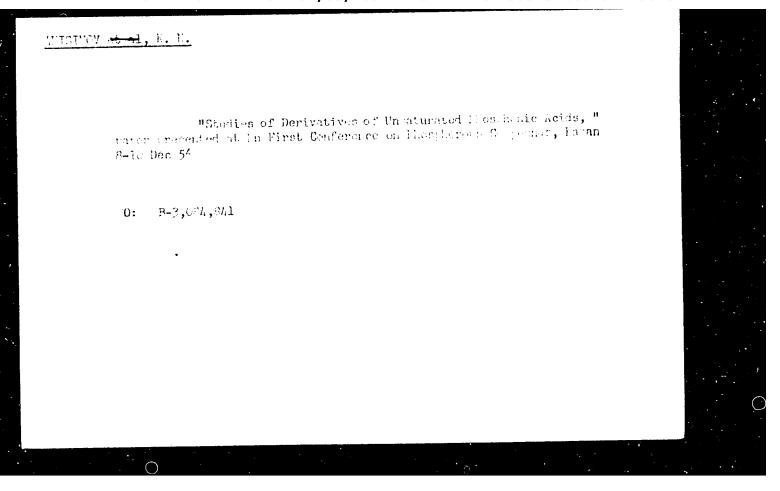
Investigation into the derivatives of unsaturated phesphonic acids. Part 14. The complete esters of phenylvinyl phesphonic acids. Inv.AN SSR odd.khim.nauk 86 no.6:1003-1005 My 155.

1. Institut elementeerganicheskikh seyedineniy Akademii nauk SSSR. (Phesphonic acid)

ANISIMOV, K.N.; MESMEYANOV, A.N.

Investigation into the derivatives of unsaturated phosphonic acids. Part 15. The complete esters of β, β¹-phenylchlorovinyl phosphonic and β-phenylacetylene phosphonic acids. Izv.AN SSR Otd.khim.nauk 86 no.6:1006-1008 My ¹55. (MLRA 9:4)

1.Institut elementoorganicheskikh seyedineniy Akademii nauk SSSR. (Phosphonic acid)



ANISMOV, K.N. USSR/ Chemistry - Analytical chemistry Card 1/1 Pub. 40 - 4/25Anisimov, K. N., and Nesmeyanov, A. N. Authors 1 Study of unsaturated phosphinic acid derivatives. Part 16. Title esters of indenyl-2-phosphinic acid. Periodical | Izv. AN SSSR. Otd. khim. nauk 1, 16-18, Jan 1956 * The derivation and the physico-chemical properties of five unsaturated Abstract esters of indenyl-2-phosphinic acids are described. Table of constants for the esters obtained is included. The esters were found to have high boiling points and are soluble only in organic solutions. Three USSR references (1955). Table. Institution: Acad. of Sc., USSR, Inst. of Elementoorganic Compounds Submitted: June 11, 1954

ANISIMOV, K.N. USSR/ Chemistry - Analytical chemistry Card 1/1 Pub. 40 - 5/25 Authors Anisimov, K. N., and Nesmeyanov, A. N. Title Study of unsaturated phosphinic acid derivatives. Part 17. Derivatives of beta-phenylvinylphosphinic acid Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 19-22, Jan 1956 Abstract The synthesis of five amides of beta-phenylvinylphosphinic acid, two esters of beta-phenylvinylthiophosphinic acid and two thio ethers of beta-phenylvinylphosphinic acid is described. The physico-chemical properties of the phosphinic acid derivatives are listed. One USSR reference (1955). Tables. Institution: Acad. of Sc., USSR, Inst. of Elementoorganic Compounds Submitted: June 11, 1954

USSR/ Chemistry - Analytical chemistry

Card 1/1 Pub. 40 - 6/25

Authors Anisimov, K. N.; Kolobova, N. Ye.; and Nesmeyanov, A. N.

Title s Study of unsaturated phosphinic acid derivatives. Part 18. Alkylthiovinylphosphinic acid chlorides and their derivatives

Periodical : Izv. AN SSSR. Otd. khim. nauk 1, 23-26, Jan 1956

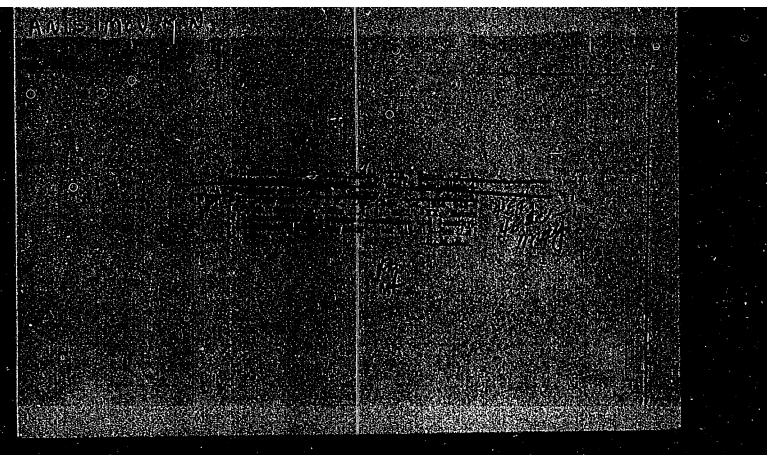
Abstract * The synthesis of acid chlorides of ethylthiovinylphosphinic, n-butylthiovinyl phosphinic, n-propyl, n-butyl, allyl, n-hexyl, beta-methoxyethyl, betaethoxyethyl esters of ethylthiovinylphosphinic acid, n-butyl, allyl and nhexyl esters of n-butylthicvinylphosphinic acid as well as dipiperidide of ethylthicvinylphosphinic acid is described. The chem. formulas of the deri-

vatives and their physico-chemical properties are given in tables. Three references: 1 USSR, 1 Pol. and 1 Germ. (1896-1954). Tables.

Institution: Acad. of Sc., USSR, Inst. of Elementoorganic Compounds

Submitted : October 14, 1954

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000101620016-4



ANISIMOV, K.H.; KOLOBOVA, N.Ye.

Research in the field of unsaturated phosphinic acids. Part 20.
Esters of (3-chloro-2-methylbutene-2)-4-phosphinic and (2-methylbutadiene-2,3)-4-phosphinic acids. Izv.AN SSSR. Otd.khim.nauk no.
8:927-931 Ag '56. (MLRA 9:10)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR. (Phosphinic acid)

ANISIMOV, K. N.; KOLOBOVA, N. Ye. (Inst. Elementary Organ. Compounds AS USSR)

"Research in the Field of Derivatives of Unsaturated Phosphinic Acids" (Issledovaniye v oblasti proizbodnykh nepredel nykh fosfinovykh kislot)

Chemistry and Uses of Organophosphorous Compounds (Khimiya i primeneniye fosfororganicheskikh soyedneniy), Trudy of First Conference, 8-10 December 1955, Kazan, Published by Kazan Affil. AS USSR, 1957 232-242

Report discussed by A. N. Pudovik (Chem. Inst. im. Acad. A. Ye. Arbuzov, Kazan Aff. AS USSR), G. V. Vinogradov (Inst. of Petroleum im. Acad. S. S. Nametkin AS USSR), B. A. Arbuzov (Chem. Inst. im. Acad. A. Ye. Arbuzov, Kazan Aff. AS USSR)

VAROSH, A.Ya.; ANSIMOV, K.N.; POLYAKOV, A.B.

Using gravitational prospecting for studying deep pyrite layers.
Trudy Sver. gor. inst. no.30:55-63 '57. (MIRA 11:4)
(Ural Mountains—Pyrites) (Prospecting—Geophysical methods)

SOV/78-3-11-1/23

AUTHORS:

Volkov, V. L., Mikheyev, Ye. P., Anisimov, K. N., Yeliseyeva,

L. Ye., Valuyeva, Z. P.

TITLE:

The Production of the Carbonyl Compounds of Molybdenum and

Tungsten (Polucheniye karbonilov molibdena i vol'frama)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1958, Vol 3, Nr 11, pp 2433-2436

(USSR)

ABSTRACT:

In the present paper the authors investigated the reaction velocity, the impurities, the time, as well as the temperature and the pressure of the reaction gases, and the nature of the solvents on the course of the synthesis and the yield of the carbonyl compounds of molybdenum and tungsten. The synthesis of molybdenum carbonyl leasted 2m3 hours, the carbonyl leasted 2m3 hours, the carbonyl leasted 2m3 hours.

of molybdenum carbonyl lasted 2-3 hours, the synthesis of tungsten carbonyl 1-1,5 hours. Tungsten carbonyl is produced with a yield of 81-85% at a reaction temperature of 32-67°. The production of the carbonyl compounds of tungsten and molybdenum is usually carried out at 50 atmospheres absolute pressure. Experiments were carried out to produce molybdenum carbonyl

Card 1/2

under a pressure of 20-30 atmospheres excess CO-pressure. Zinc powder and aluminum powder were used as reducing agents. If

SOV/78-3-11-1/23 The Production of the Carbonyl Compounds of Molybdenum and Tungsten

> aluminum is used as reducing agent the yield of molybdenum carbonyl amounts to 0,6% at 18°C, 1,3% at 100°C, 9% at 150°C and 100 atmospheres excess pressure. If iron powder is used as reducing agent, the yield of molybdenum carbonyl amounts to 1,5% at 100°C. If zinc is used as reducing agent, the yield of molybdenum carbonyl is not higher than 6,6%. Mainly zinc powder is used as reducing agent for the production of tungsten carbonyl. The yield amounts to 85%. It was shown that for the production of carbonyl compounds ether in a quantity of not more than 2 g-mol to 1 g-mol metal chloride is necessary.

There are 2 tables and 3 references, 2 of which are Soviet.

SUBMITTED:

October 2, 1957

Card 2/2

sov/62-58-10-8/25 Anisimov, K. N., Raysbaum, B. V. AUTHORS: Investigation in the Field of the Derivatives TITLE: of Unsaturated Phosphinic Acids (Issledovaniya v oblasti proizvodnykh nepredel'nykh fosfinovykh kislot) Communication 21: Esters and Amides of | -Isooctyl-Oxy-Vinyl Phosphinic Acid Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, PERIODICAL: 1958, Nr 10, pp 1208-1211 (USSR) This paper is a part in the series of investigations of phosphinic acids and their derivatives produced on the basis ABSTRACT: of combination reactions of phosphorus pentachloride with unsaturated compounds. Acid chloride of the \$\beta\$-isooctyl-oxyvinyl phosphinic acid was synthesized according to the method described already earlier (Ref 1) by the action of PCl5 on vinyl-isooctyl ether. For synthesizing complete esters of the β -isooctyl-oxy-vinyl phosphinic acid by the interaction of acid chloride with alcohols in benzene medium the method by Milobendzki and Sachnowski (Ref 2) was employed. In the present paper the authors report on the synthesis of acid Card 1/2

SOV/62-58-10-8/25 Investigation in the Field of the Derivatives of Unsaturated Phosphinic Acids. Communication 21: Esters and Amides of \$\beta\$ -Isooctyl-Oxy-Vinyl Phosphinic Acid

chloride of the \$\beta\$ -isooctyl-oxy-vinyl phosphinic acid, diethyl, dipropyl, dibutyl, diisobutyl, diisoamyl, dihexyl, diisooctyl, dimethoxy-ethyl ester of the \(\begin{align*} \ -isooctyl-oxy-vinyl \ \ phosphinic \end{align*} \) tetramethyl diamide, tetraethyl diamide and dipiperidide of the \$ -isocotyl-oxy-vinyl phosphinic acid was carried out according to the method by Michaelis (Ref 3). There are 1 table and

4 references, 2 of which are Soviet.

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR ASSOCIATION:

(Institute of Elementary Organic Compounds, Academy of

Sciences, USSR)

March 6, 1957 SUBMITTED:

Card 2/2

507/80-59-1-29/44

AUTHORF:

Papok, K.K., Anisimov, K.H., Zuseva, B.S. and Kolobova, E.Ye.

TITLE:

Effect of Esters of Unsaturated Phosphinous Acids on the Antiexidation Properties of Mineral Cil (Vliyaniye effrow repredel'nykh fosfinovykh kislot na artickislitel'nyye svoystva

mineral nego masla)

PERIODICAL:

Zhurnal prikladroy Lhimii, 1:55, Er 1, pp 180-186 (USSR)

APOTRACT:

Phosphorus-organic compounds improve the properties of lubricating oils. In the present paper the authors describe the effect of esters of unsaturated phosphinous acids on the antioxidizing properties of the DS-20 mineral oil. The evaluation of these properties was performed by the four methods: 1. thermal oxidizing stability, 2. volatility, 3. working fraction and 4. varnish formation (GOST 5737-53), and the results were compiled into tables. Their analysis leads to the following conclusions: 1. The antioxidizing properties of unsaturated phosphinous acid esters are improved: a. with the introduction of the phenyl group in diethyl, diallyl and dihexyl esters; b. with the presence of the indenyl group in diethyl and finallyl esters; c. with an increase in the length of the hydrocarbon radical (from C2 to C6) in diallyl and dihexyl esters; d. with an increase in the length of the chain of the ester grouping radical (from C2 to C6) in esters of the 3-butoxivinyl-

Card 1/2

SOV/80-59-1-29/44

Effect of Esters of Unsaturated Phosphinous Acids on the Antioxidation Pro-

thespainous, β -phenylvinyl, hesphineus and β -hexploxivinyl-passiphineus acros. 2. Among the compounds investigated dihexpl eaters of unsaturated phosphineus acids possess the highest antiexisizing properties.

higher tantioxidizing properties.
There fare 5 tables and 2 references, 1 of which is Soviet

and 1 American.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Elemental Organic Compounds of the AS USSR)

SUBMITTED:

May 23, 1957

Card 2/2

SOV/78-4-2-1/40 Nesmeyanov, A. N., Anisimov, K. N., Mikheyev, Ye. P., Volkov, V. L., Valuyeva, Z. P. **-** 5(2) of Tungsten Carbonyl by the Interaction of AUTHORS: Iron Pentacarbonyl With Tungsten Hexachloride (Polucheniye karbonila vol'frama vzaimodeystviyem pentakarbonila zheleza Proparation TITLE: s shestikhloristym vol'framom) Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 2, The interaction of tungsten-6-chloride with iron pentacarbonyl PERIODICAL: pp 249-252 (USSR) in an ethyl other medium was investigated. The tests in the autoclave were carried out at the following molar ratios of the individual components: WCl6: Fe(CO)5 = 1:2.25 and ABSTRACT: 1: 3.25. The temperatures during the tests were: 70, 90, 110, 130, 150, 170 and 1900. At the molar ratio Fe(CO)5: WCl6 " = 3.25: 1 the yield of W(CO) increases with temperature; it shows an increase of 29.31% at 200, of 36-42% at 700, and of 72-75% at 900. The course of the reaction is shown in the card 1/2

Preparation of Tungsten Carbonyl by the Interaction of Iron Pentacarbonyl With Tungsten Hexachloride

following equation: $WCl_6 \div 3Fe(CO)_5 \longrightarrow W(CO)_6 + 3FeCl_2 + 9CO$. The supply of hydrogen to the reaction mixture, after the conclusion of the reaction, increases the $W(CO)_6$ yield to

85%. This reaction corresponds to the following equation: $WCl_6 + 2Fe(CO)_5 + H_2 \longrightarrow W(CO)_6 + 2FeCl_2 + 2HCl + 4CO$.

The production of tungsten hexacarbonyl is described in detail. Results which are well reproducible are obtained by this method. There are 2 tables and 7 references, 3 of which are Soviet.

SUBMITTED:

Desember 9, 1957

Card 2/2

5(2)

sov/78-4-3-2/34

AUTHORS:

Nesmeyanov, A. N., Mikheyev, Ye. P., Anisimov, K. N.,

Volkov, V. L., Valuyeva, Z. P.

TITLE:

The Synthesis of Molybdenum Carbonyl by Interaction Between Iron Pentacarbonyl and Molybdenum Pentachloride (Sintez karbonila molibdena vzaimodeystviyem pentakarbonila zheleza s

pyatikhloristym molibdenom)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 3,

pp 503-505 (USSR)

ABSTRACT:

It has been found that molybdenum hexacarbonyl is formed in a maximum yield of 28.5% by the interaction between iron pentacarbonyl and molybdenum pentachloride in the presence of hydrogen chloride under a carbon monoxide pressure in an ether medium. Molybdenum hexacarbonyl is formed in a 15% yield at 1750 in the presence of compressed hydrogen in an ethyl ether medium. Molybdenum carbonyl is formed in a yield of 23.4% at 1750 when the reaction is performed in an autoclave with hydrogen (initial pressure 100 atmospheres) and carbon monoxide

(initial pressure 50 atmospheres). There are 2 tables and

1 Soviet reference.

5(2)

SOY/78-4-8-19/43

AUTHORS:

Nesmeyanov, A. N., Anisimov, K. N., Yolkov, Y. L., Fridenberg, A. E., Mikheyev, Ye. P., Medvedeva, A. Y.

TIPLE:

The Synthesis of Chromium Hexacarbonyl by the Reaction of Chromium Trichloride With Lithium Aluminum Hydride and Carbon Oxide Under Pressure (Sintez geksakarbonila khroma vzaimodeyst-

viyem trekhkhloristogo khroma s litiyalyuminiygidridom i

okis'yu ugleroda pod davleniyem)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 8, pp 1827-1828

(USSR)

ABSTRACT:

If the reaction mentioned in the title is carried out at a ratio of 1 mole CrCl₃: 3 mole LiAlH₄ in etheric solution at 65°C and a pressure of 100 at, Cr(CO)₆ is obtained in a 65% yield. The hitherto published data (Refs 1-6) show lower

yield. The hitherto published data (Refs 1-6) show lower yields. A lower content of lithium aluminum hydride in the reaction mixture and lower temperatures strongly reduce the yields (Table 1). There are 1 table and 7 references, 3 of

which are Soviet.

DATE 1/2

5(2)

507/78-4-9-3/44

AUTHORS:

Nesmeyanov, A. N., Mikheyev, Ye. P., Anisimov, K. N.,

Filimonova, N. P.

TITLE:

The Synthesis of the Chromium Hexacarbonyl With Participation

of Metallic Reducing Agents

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 9,

pp 1958-1960 (USSR)

O .

ABSTRACT:

Reference is made to the studies on Cr(CO) described in

publications (Refs 1-5, 7, 8). The difficulty encountered in synthesizing this substance lies in the high electrode potential of chromium trichloride, as this makes the use of strongly reducing metals necessary, which simultaneously give side reactions with the solvent. The only comparatively indifferent solvent was stated to be pyridine, which does not react with the alkali metals and forms complex compounds with Cr(CO)6. CrCl3 was dissolved in pyridine and reacted with

CO under higher pressure after addition of zinc powder at 175° and yielded 10.8% Cr(CO)6. The authors obtained a 35%

yield of the same substance, by applying 50% excess magnesium activated by a crystal of iodine. Without activation by iodine the yield sank to 4%, as the magnesium did not react. An

Card 1/2

SOV/78-4-9-3/44 The Synthesis of the Chromium Hexacarbonyl With Participation of Metallic Reducing Agents

increase in the CO pressure to 220 atm also passivated the magnesium (only 1.7% yield). Appreciable yields were obtained with sodium (150% theoretical amount) at 20-25°. Raising the temperature to 50° lowered the yield. However, a rise in pressure to 220 atm increased the yield to 37%. The same yield was obtained by using lithium instead at a pressure of only 70 atm, but a further rise in the CO pressure had no effect on the yield. There are 9 references, 2 of which are Soviet.

SUBMITTED: May 28, 1958

Card 2/2

PAPOK, K.K.; ANISIMOV, K.N.; ZUSEVA, B.S.; KOLOBOVA, N.Ye.

Effect of esters of unsaturated phosphinic acids on the antioxidizing properties of mineral oil. Zhur.prikl.khim. 32 no.1:180-186 Ja 159. (MIRA 12:4)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Mineral oils) (Phosphinic acid) (Oxidation)

SOV/80-32-2-22/56

AUTHORS:

" Papok, K.K., Anisimov, K.N., Zuseva, B.S., Kolobova, N.Ye.

TITLE:

Effect of Tetraalkyldiamides and Dipiperidides of Unsaturated Phosphine Acids on the Antioxidation Properties of Mineral Oil (Vliyaniye tetraalkildiamidov i dipiperididov negredel'nykh fosfinovykh kislot na antiokislitel'nyye svoystva mineral'-

nogo masla)

PERIODICAL:

Zhurnal prikladnoy khimii, 1959, Vol XXXII, Nr 2,

pp 358-363 (USSR)

ABSTRACT:

The effect of diamides and dipiperidides of unsaturated phosphinic acids on the antioxidizing properties of the oil MS-20 is investigated here. The dipiperidide radical in the compounds increases their anticxidizing property. Phenyl and phenoxy groups increase the antioxidation properties only in tetraethyldiamides, but not in other compounds. The lengthening of the carbon radical in the group (NR2)2 from C2 to C4 reduces antioxidation in tetracthyldiamides and tetrabutyldiamides. Tetraalkyldiamides and pireridides of unsaturated phosphinic acids

Card 1/2

SOV/80-32-2-22/56

Effect of Tetraalkyldiamides and Diriperidides of Unsaturated Phosphine Acids on the Antioxidation Properties of Mineral Oil

have higher antioxidizing properties than the esters of unsaturated phosphinic acids.

There are 4 tables and 1 Soviet reference.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Element-Organic Compounds of the USSR Academy of Sciences)

SUBMITTED:

May 23, 1957

Card 2/2

5(3)

307, 88-32-3-33, 43

AUTHORS:

Papok, K.K., Anisimov, K.H., Duseva, D.S., Rolobova, A.Ve.

TITLE:

The Effect of Thio-Compounds of Unpaturated thought to Apilla on the Anti-Oxidation Properties of Lineval Oil (Linniye tiosoyedineniy nepredelinykh fosfinovnih kislot ... miekislitel'nyye svoystva minoral'nogo musla)

PERIODICAL:

Dhurnal prikladnoy khimli, 1959, Vol XAVII, Dr 3, 19 050-059

(USSR)

ABSTRACT:

The effect of the dithiocthyl others of unnaturated gara, binis and thie hosphinic heids and of the others of alkylthic risksphosphinic acids on the antioxidation properties of the other 78-20 is investigated here. The rest result is obtained in the lithicothed after of the β -chaos, theoretical according to side. The later post is a fourther three bacother, of any highest passiblinic solds increased their antic is that reportions ly. The others of altylableviagh ho binic cits have a offert or bur ability against themsel existing.

ANISIMOV, K.W. [Anisimov, K.N.]; FEDOROVA, G.K. [Federova, H.K.]

Rection of phosphorus pentachloride and vinylacetylens. Dop.AN USSI no.9:1245-1250 160. (MIRA 13:10)

1. Institut organicheskoy khimii AN USSR. Predstavleno akademikom AN USSR A.I.Kiprianovym.
(Phosphorus chlorides) (Butenyne)

ANISIMOV, K.H.; KUNTTSKAYA, G.M.; SLOVOMHOTOVA, N.A.

Unsaturated phosphonic acids. Report No. 22: Addition of

onsaturated phosphonic acids. Report No. 22: Addition of phosphorus pentachloride to isopropenylacetylene. Izv. AN SSSR. Otd. khim.nauk no. 1:64-71 Ja 61. (MRA 14:2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Fizikokhimicheskiy institut im. L.Ya. Karpova. (Butenyne) (Phosphorus chloride)

5/062/61/000/001/006/016 B101/B220

AUTHORS:

Slovokhotova, N. A., Anisimov, K. N., Kunitskaya, G. M.,

and Kolobova, N. Ye.

TITLE:

Infra-red spectra of some derivatives of unsaturated

phosphinic acids

PERIODICAL:

Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk,

no. 1, 1961, 71-76

TEXT: The purpose of the present paper was to verify the structural formulas of various previously (Ref.) synthesized derivatives of unsaturated phosphinic acids based on their infra-red spectra, as well as to study the mutual influence of atoms and groups inside their molecules. The spectra were taken by means of a Hilger A-209 (D-209) infra-red spectrometer. A table indicates those absorption bands from which conclusions were drawn as to the structure of the analyzed substances. In detail, the following has been found: The chlorine atom bound to the C-atom neighboring the C=C bond (ester II) increases the frequency of stretching vibrations of the C=C bond. The absorption bands 870-910 cm⁻¹ correspond-

Infra-red spectra of some derivatives...

S/062/61/000/001/006/016 B101/B220

ing to deformation vibrations of the CH group at the C=C bond confirm the existence of vinyl groups in IV and of vinylidene groups in I. II, III. The shift of these bands in II is also attributed to the neighboring the shift of these bands in II is also attributed to the neighboring chlorine atom. In relation to IV where the phosphorus group is not conjugated with the C=C group, frequency in V is reduced by 40 cm⁻¹. Since, conjugated with the C=C group, frequency in V is reduced by 40 cm⁻¹. Since, conjugated with the C=C group, this effect is attributed to located in the same plane as the C=C group, this effect is attributed to located in the same plane as the C=C group, this effect is attributed to the phosphorus atom. In the esters VII to IX, a similarity with the spectra of pentadiene and isoprene was found in the range

1640-1585 cm⁻¹, which is attributed to the corresponding bands of symmetrical and antisymmetrical vibrations of the conjugate double bonds. The band shift is attributed to the neighboring phosphorus atom. All compounds show intensive bands in the range 1250-1270 cm⁻¹; these bands correspond to the P=0 bond, and in the case of acid chlorides, they are shifted correspond to the P=0 bond, and in the case of acid chlorides, they are shifted by 20 cm⁻¹ toward higher frequencies, owing to the action of the chlorine by 20 cm⁻¹ toward higher frequencies, owing to the action of the chlorine atoms. The intensive doublet bands 1060-1000 cm⁻¹ are attributed to atoms. The intensive doublet bands 1060-1000 cm⁻¹ are attributed to atoms of the 0-C bond in the P-0-C groups. There are 3 figures, vibrations of the 0-C bond in the P-0-C groups. There are 3 figures, table, and 10 references: 3 Soviet-bloc and 8 non-Soviet-bloc.

Card 2/6 3

Infra-red spectra of some derivatives...

5/062/61/000/001/006/016 B101/B220

ASSOCIATION:

Piziko-khimicheskiy institut im. L. Ya. Karpova (Physicochemical Institute imeni L. Ya. Karpov).

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-organic Compounds, Academy

of Sciences USSR)

· SUBMITTED:

July 23, 1959

Card 3/33

89902 \$/062/61/000/002/005/012 2209, 1287, 1153 5.3630 AUTHORS: Anisimov, K. N. and Kunitskaya, G. M. TITLE: Study of unsaturated phosphonic acids. Report no. 23. Addition of phosphorus pentachloride to ethynyl cyclohexene-1 PERIODICAL: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, no. 2, 1961, 274-277 In continuation of their studies of unsaturated phosphonic acids, the authors describe the addition of phosphorus pentachloride to ethynyl CCI=CHPCI, PCI (A)=CHPOCI, (1).Card 1/5

	89907	
Study of unsaturated phosphonic	S/062/61/000/002/005/012 B115/B207	
The acid chloride obtained reacts readily	with alcohols:	
CCI=CHPOCI ₂ + RC + RC CCI=CHPO (OR) ₂	$\begin{array}{c} \text{OH} + 2C_8H_5N \rightarrow \\ + 2C_8H_5N \cdot \text{HCI} \end{array}$	
In accordance with this reaction, the author-propyl esters of β , β '-cyclohexenyl chlor (CCVP). The table shows the constants of The infrared spectra of the acid chloride facilitated the study of the structure of range of the stretching vibrations of the in the spectrum of these compounds: 1625, which confirms the existence of double bor	the compounds obtained. and the esters of (CCVP) these substances. In the C=C bond, two bands appear 1620 cm ⁻¹ and 1570, 1558 cm ⁻¹ ,	
conjugate system. The absorption bands 12	275, 1260 cm ⁻¹ are stretching	
Card 2/83		

89909

Study of unsaturated phosphonic ...

\$/062/61/000/002/005/012 B115/B207

vibrations of the P=0 bond (according to A. Ye. Arbusov, M. I. Batuyev. and V. S. Vinogradova, Dokl. AN SSSR 54, 603 (1946)). In conclusion, the authors summarize as follows: 1) The acid chloride of (CCVP) was obtained. 2) Diethyl- and di-n-propyl esters of (CCVP) were synthesized. 3) The structure of the substances obtained was studied by means of infrared spectroscopy. There are 2 figures, 1 table, and 6 references: 3 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental-organic Compounds of the

Academy of Sciences USSR)

SUBMITTED:

July 23, 1959

Card 3/3

89930 s/062/61/000/002/006/012 B115/B207 2209,1287,1153 Anisimov, K. N. and Kopylova, B. V. 5 3630 Studies in the field of unsaturated phosphonic acid AUTHORS: derivatives. Report no. 24. Interaction of phosphorus pentachloride with alkoxy acetylenes TITLE: Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nauk, no. 2, 1961, 277-280 PERIODICAL: TEXT: In the present paper, the authors report on the addition of phosphorus pentachloride to 5-phenoxy pentyne-1 and 5-ethoxy pentyne-1. After having treated the addition products with sulfur dioxide, the authors obtained the acid chloride of 2-chloro-5-phenoxy pentene-1phosphonic acid (I), and of 2-chloro-5-ethoxy pentene-1-phosphonic $RO(CH_2)_3C \equiv CH + 2PC1_4^+PC1_6^- \longrightarrow RO(CH_2)_3CC1 = CHPC1_3^+PC1_6^- \longrightarrow RO(CH_2)_3CC1 = CHPOC1_2 + POC1_3 + SOC1_2$. Dimethyl-, diethyl-, and Card 1/3

89920

S/062/61/000/002/006/012 B115/B207

Studies in the field of unsaturated ...

dibutyl esters were obtained from (I) by the usual method. By hydrolyzing the acid chloride, the corresponding acid was obtained. From (II), the authors obtained the diethyl ester (boiling point 158-160°C at 3 mm Hg). V. N. Smorchkov recorded infrared spectra of diethyl- and dibutyl esters of 2-chloro-5-phenoxy pentene-1-phosphonic acid in I. V. Obreimov's laboratory. An absorption band in the range 1680-1620 cm⁻¹ is characteristic of compounds containing an isolated double bond. In the case of $C_6H_5O(CH_2)_3CC1 = CHPO(OR)_2$, the absorption band lies in the region of 1580 cm-1. This shift is explained by the action of the chlorine atom at the double bond. absorption band in the range 1250-1300 cm 1 is characteristic of the P == 0 group; it also holds for the two cases investigated. (I) is a white, crystalline, extremely hygroscopic substance readily soluble in benzene, less readily in petroleum ether, and insoluble in sulfur ether. 2-Chloro-5-phencxy pentene-1 phosphonic acid (III) is a silvery-white, crystalline substance poorly soluble in water and

Card 2/3

89910

Studies in the field of unsaturated ...

s/062/61/000/002/006/012 B115/B207

easily in alcohol. The esters of this acid are thick, yellowish liquids soluble in organic solvents. Under the action of a calculated amount of KOH alcohol solution upon the dimethyl and diethyl ester of (III), corresponding esters of 5-phenoxy pentyne-1-phosphonic acid were obtained

 $c_{6}H_{5}O(CH_{2})_{3}CC1 = CHPO(OR)_{2} \xrightarrow{KOH} c_{6}H_{5}O(CH_{2})_{3}C \equiv CPO(OR)_{2}.$

The authors failed to obtain these esters by interaction of (I) with alcohol and a calculated amount of triethylamine. The corresponding esters of (III) were thus obtained. Papers by M. F. Shostakovskiy and L. I. Antsus are mentioned. There are 2 figures, 2 tables, and 5 references: 4 Soviet-bloc and 1 non-Soviet-bloc.

Institut elementoorganicheskikh soyedineniy Akademii ASSOCIATION:

nauk SSSR (Institute of Elemental-organic Compounds of

the Academy of Sciences USSR)

August 4, 1959 SUBMITTED:

Card 3/3

NESMEYANOV, A.N.: ANISMOV, K.N.: VALUYEVA, Z.P.

Preparation of ethylcyclopentadienyltricarbonylmanganese.

Preparation of ethylcyclopentadienyltricarbonylmanganese.

Izv.AN SSSR.Otd.khim.nauk no.10:1780-1783 0 '61. (MIRA 14:10)

Izv.AN SSSR.Otd.khim.nauk no.10:1780-1783 0 '61. (MI

ANISIMLV, K.N.; KOLOBOVA, N.Ye.

Chlorides of unsaturated acids. Izv.AN SSSR. Utd.khim.nauk
no.31442-443 Mr '62.

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Phosphinous chloride)